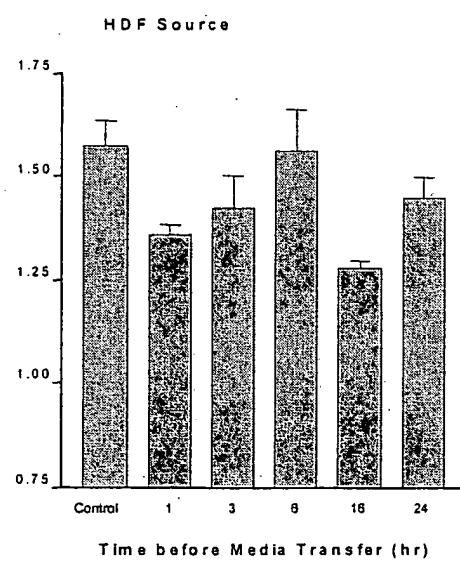


Title: ELECTROMAGNETIC ACTIVATION OF GENE EXPRESSION AND CELL GROWTH
Inventors: George and Moffett
Filing Date: Herewith
Attorney Client-Matter No.: 66672-019
Tel: 858-535-9001

1/29

A



B

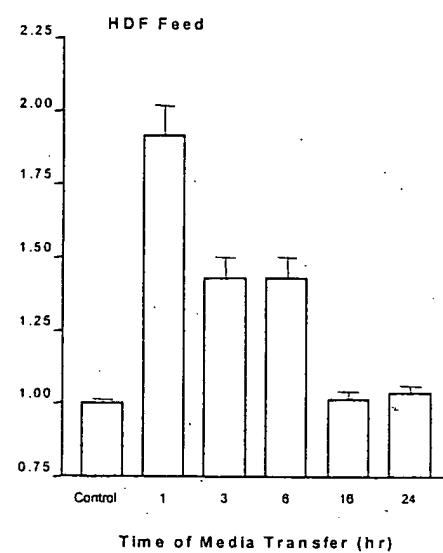


Figure 1

2/29

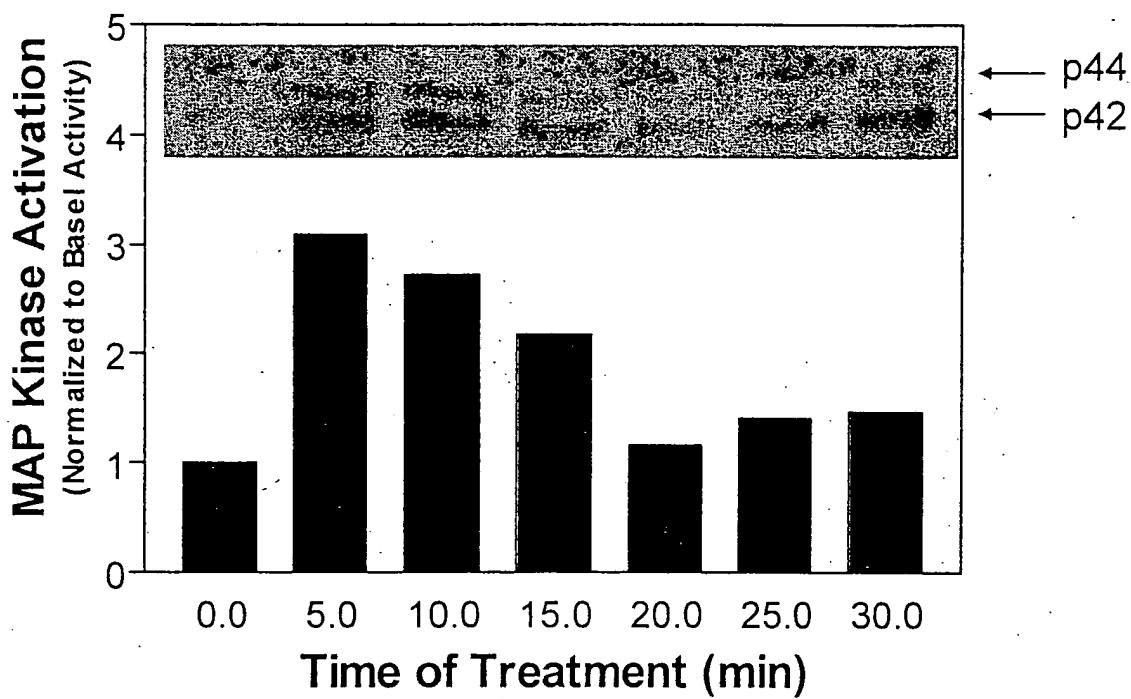


Figure 2

3/29

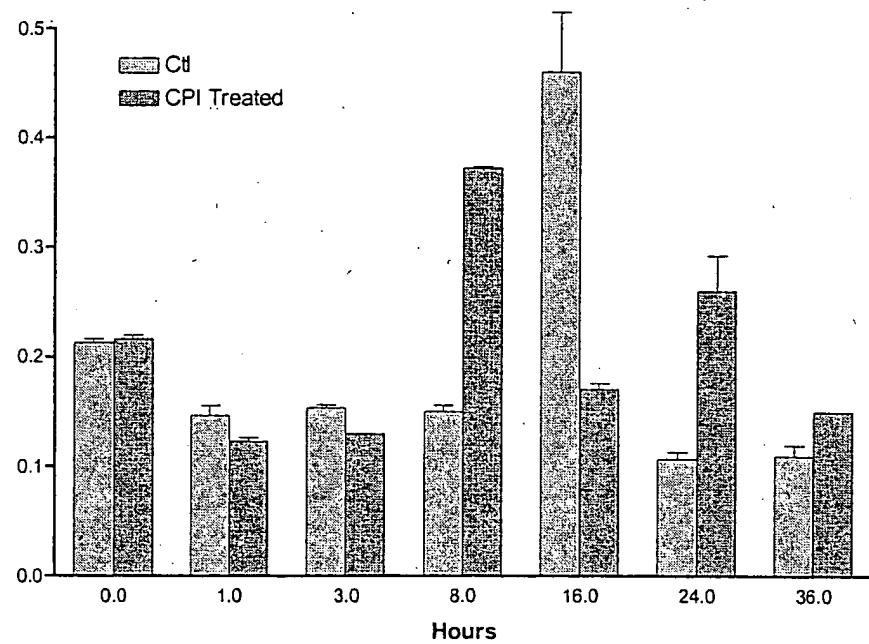


Figure 3

4/29

Control 5 hr Post-Provant®
Treatment

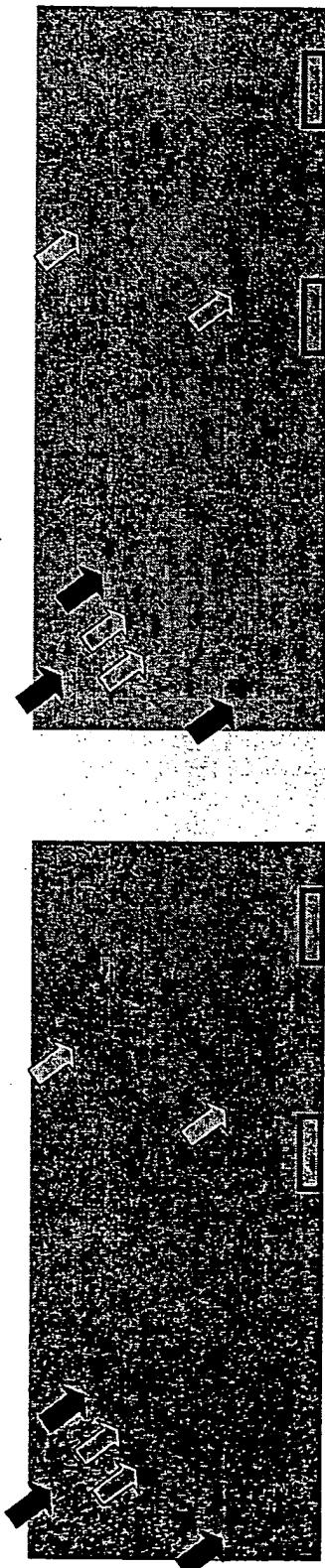


Figure 4

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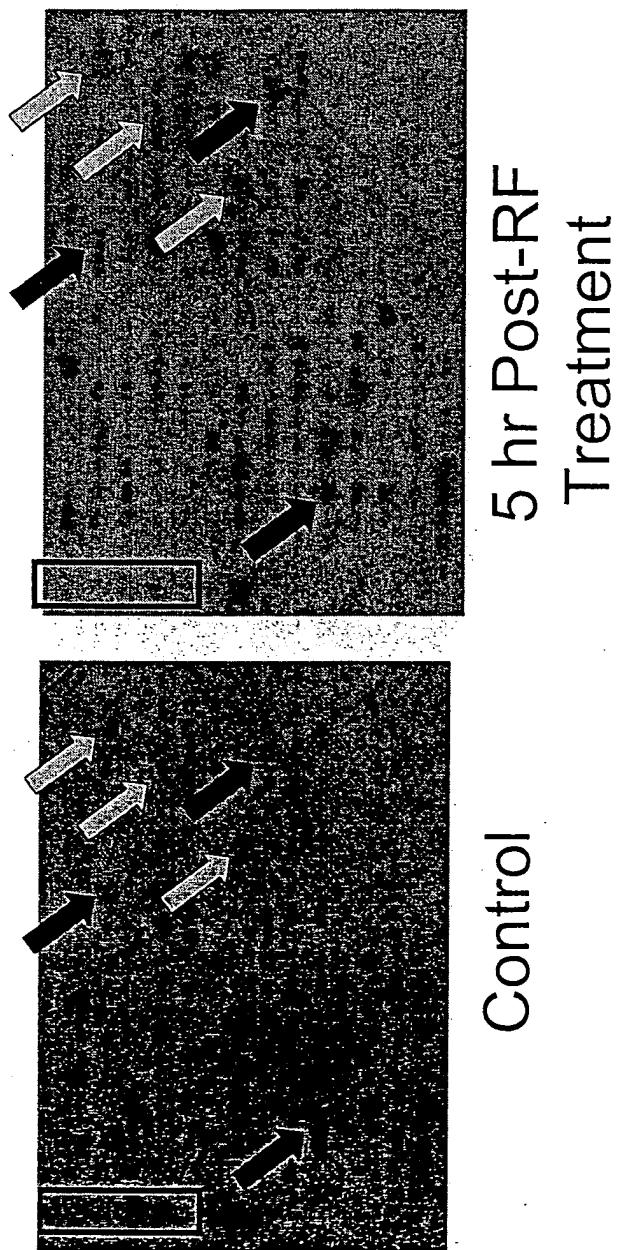


Figure 5

6/29

Fibroblast Expression Profiles

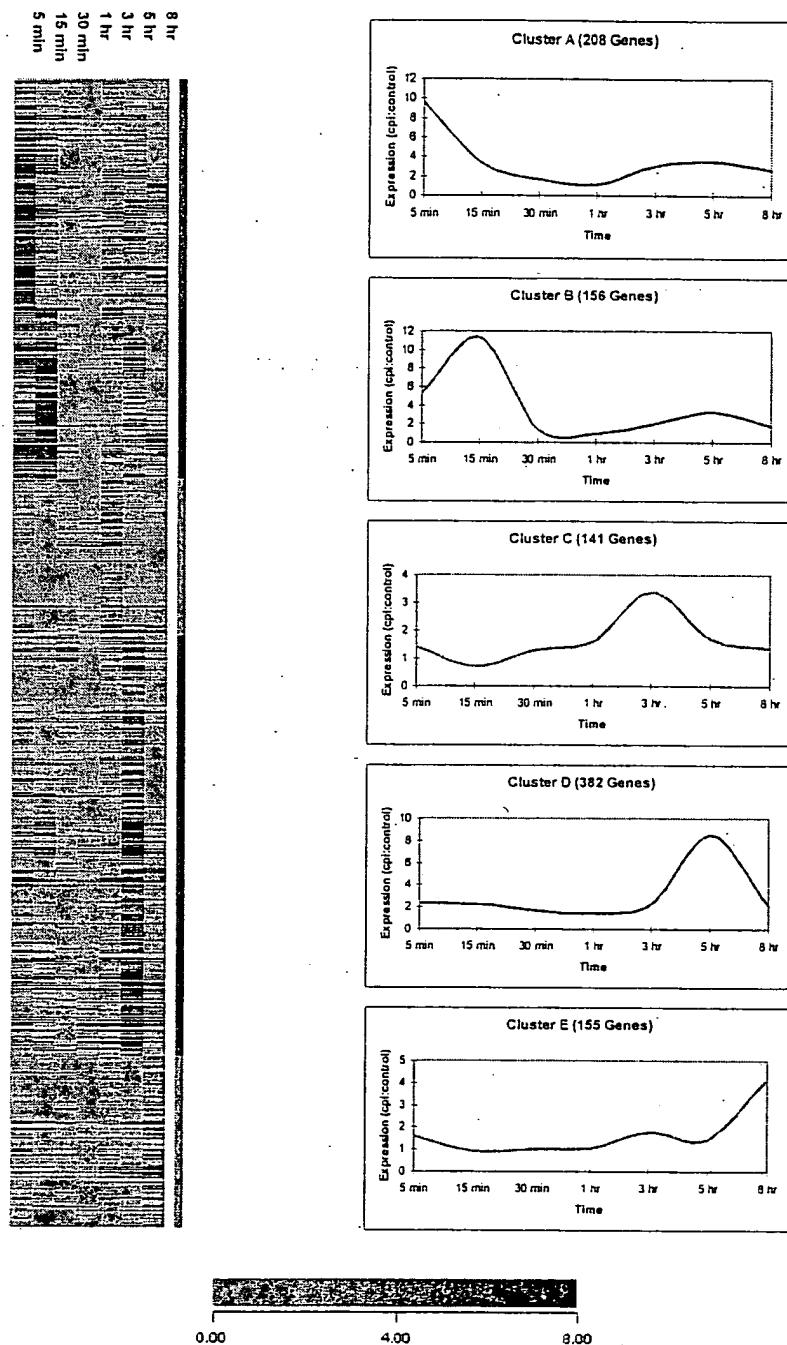


Figure 6A

7/29

Adhesion Molecules

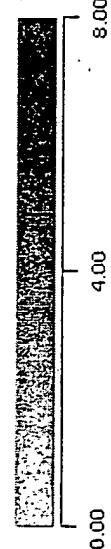
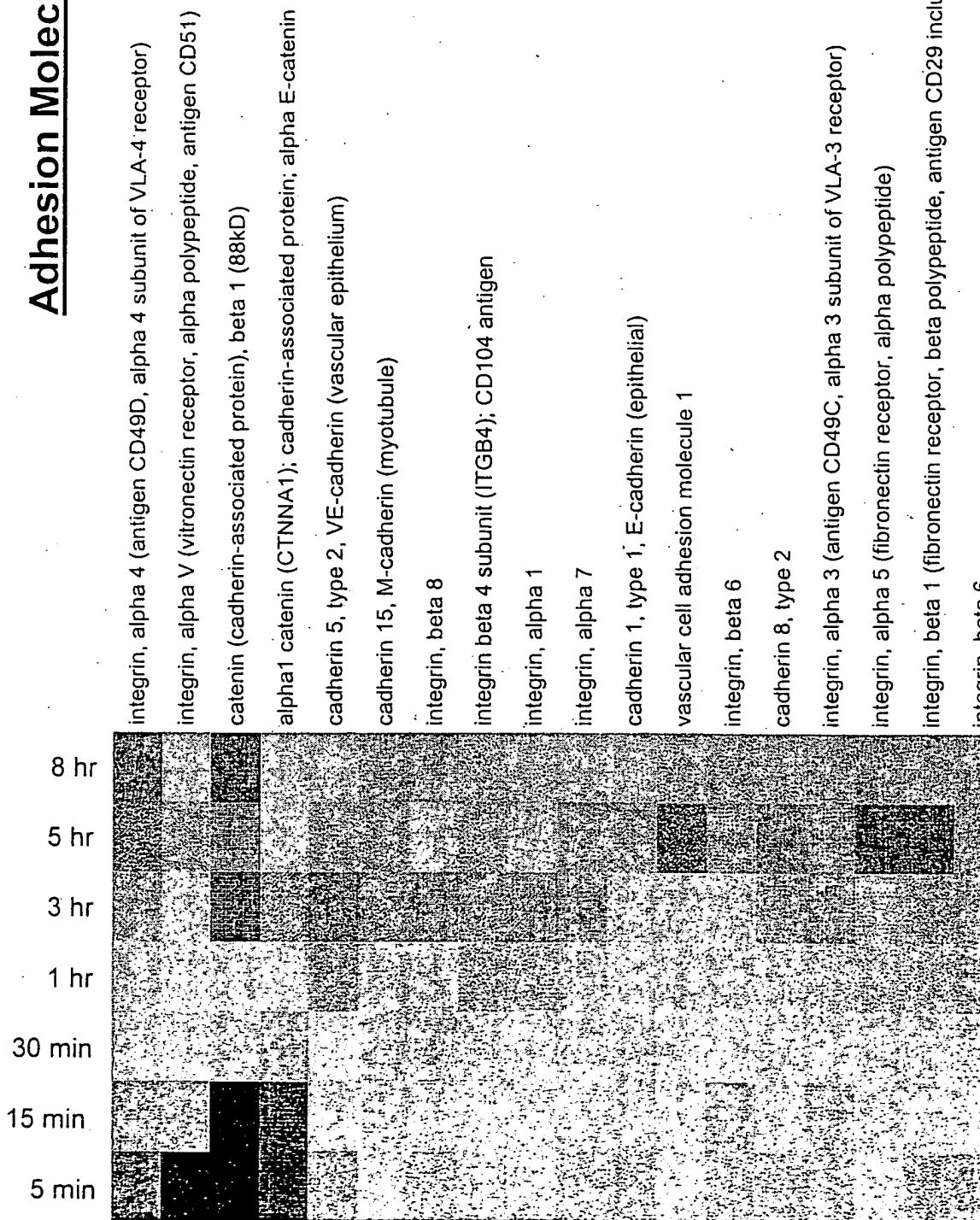


Figure 6B

8/29

Cyclins

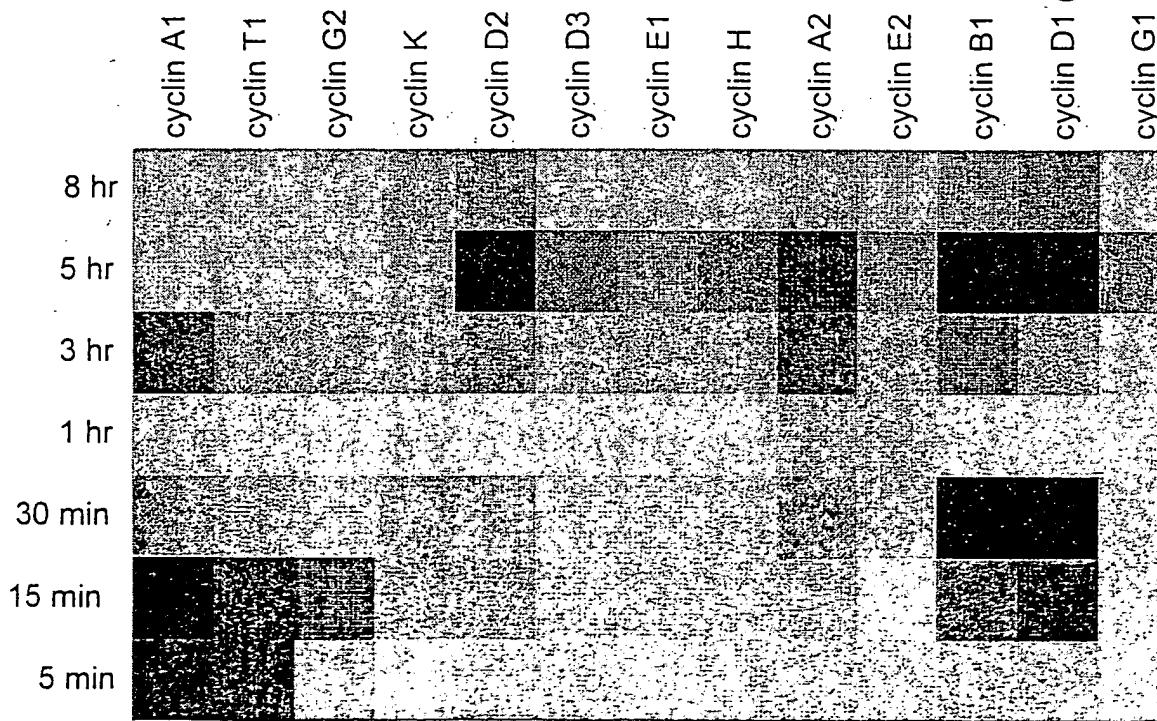


Figure 6B continued

9/29

DNA Synthesis Proteins

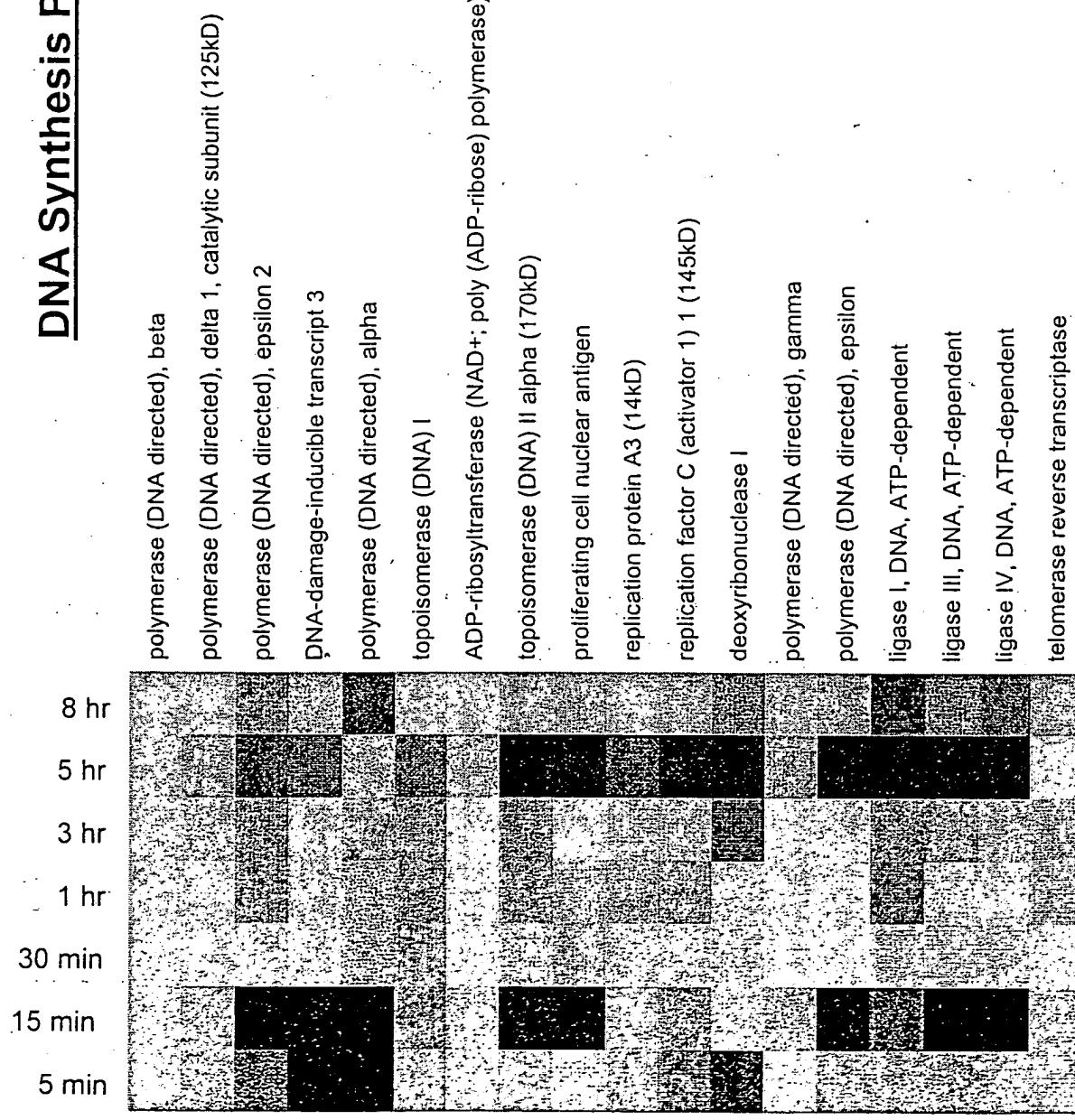
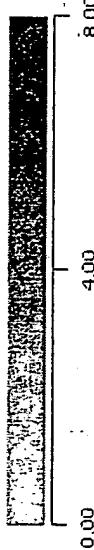


Figure 6B continued



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Growth Factors and Their Receptors

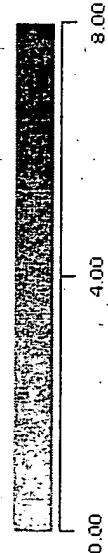
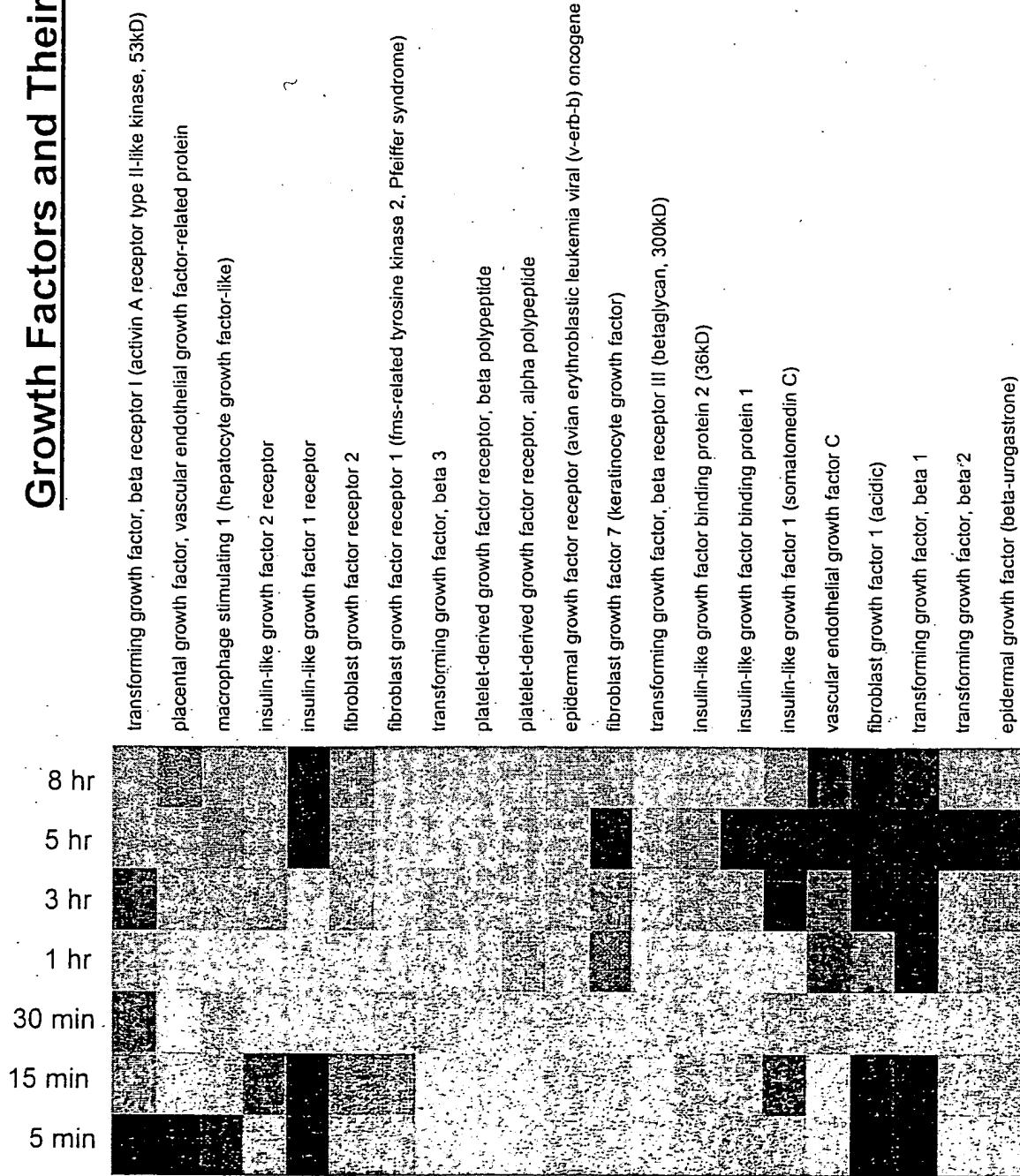
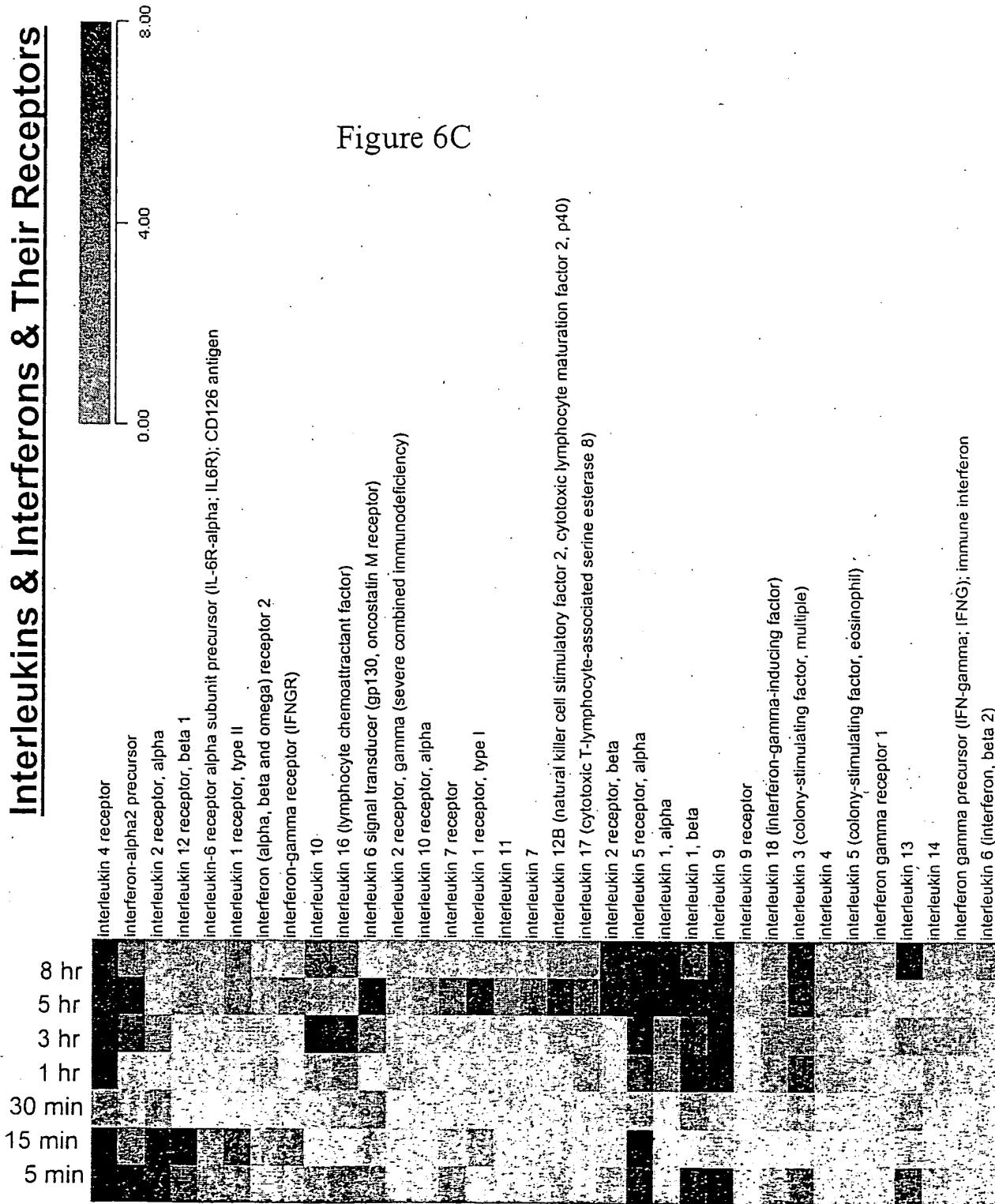


Figure 6B continued

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Interleukins & Interferons & Their Receptors



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Other Kinases

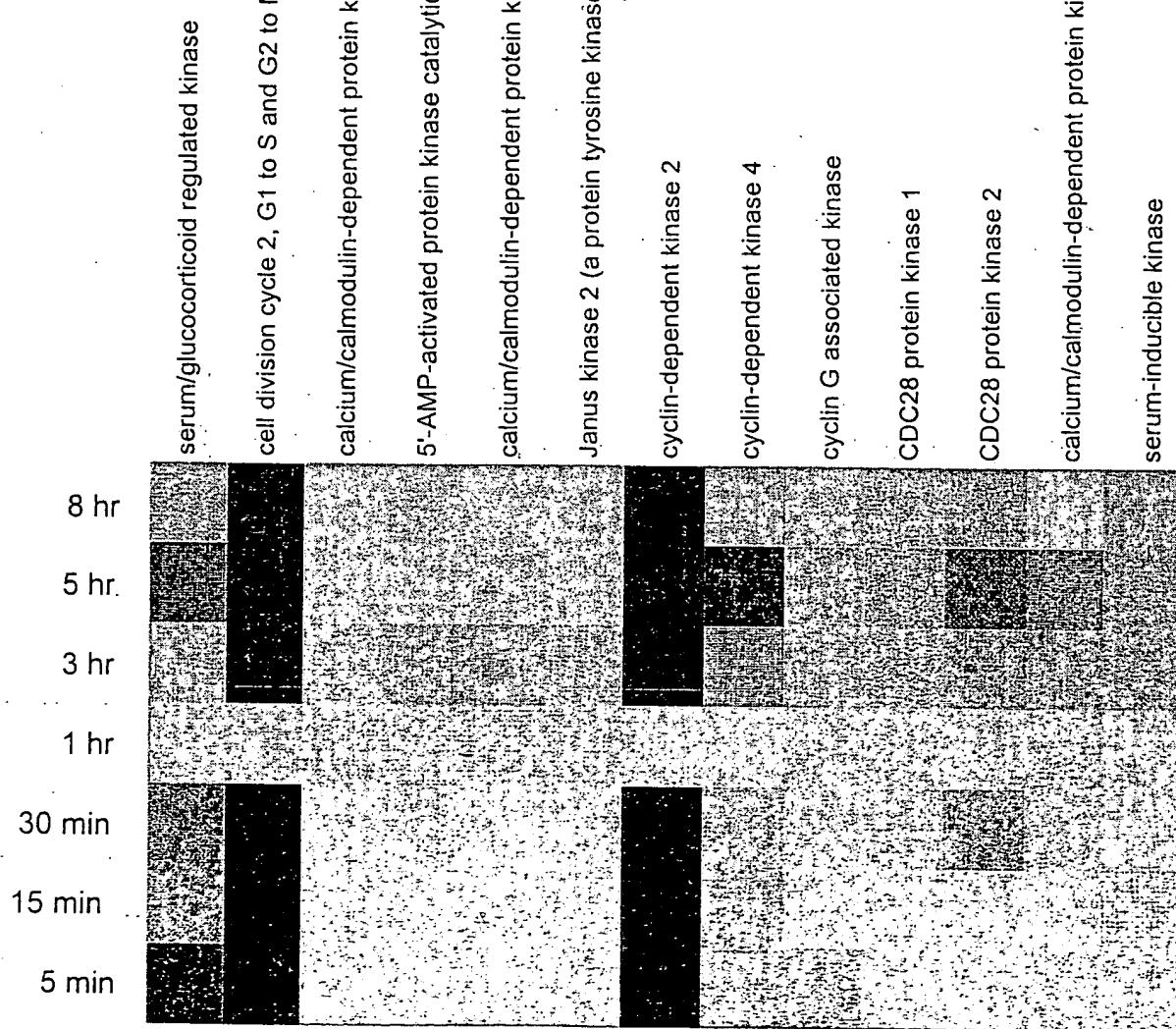


Figure 6C continued

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MAP Kinases

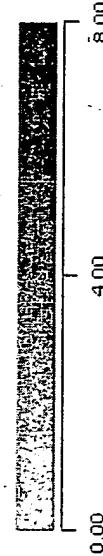
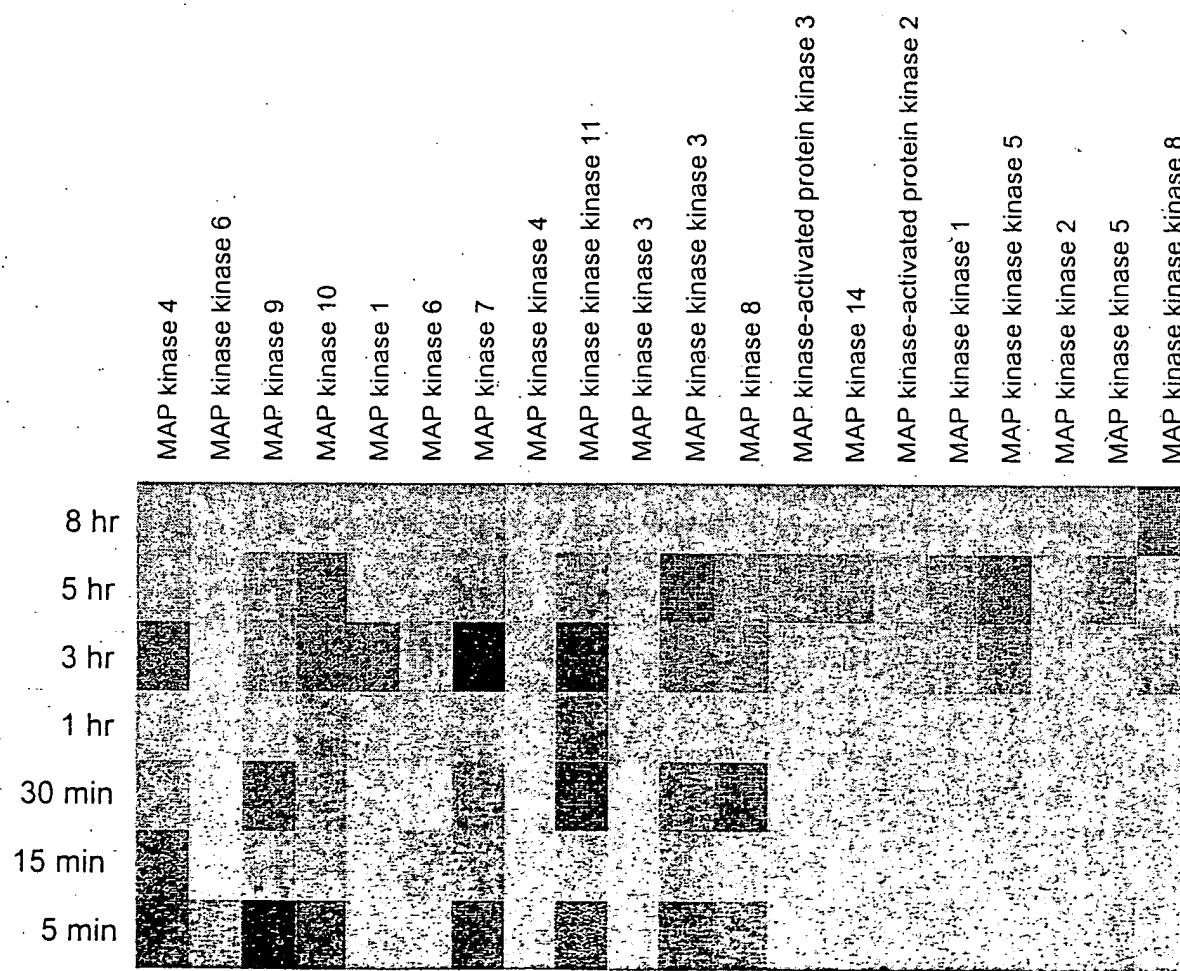


Figure 6C continued

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Matrix Metalloproteinases and their Inhibitors

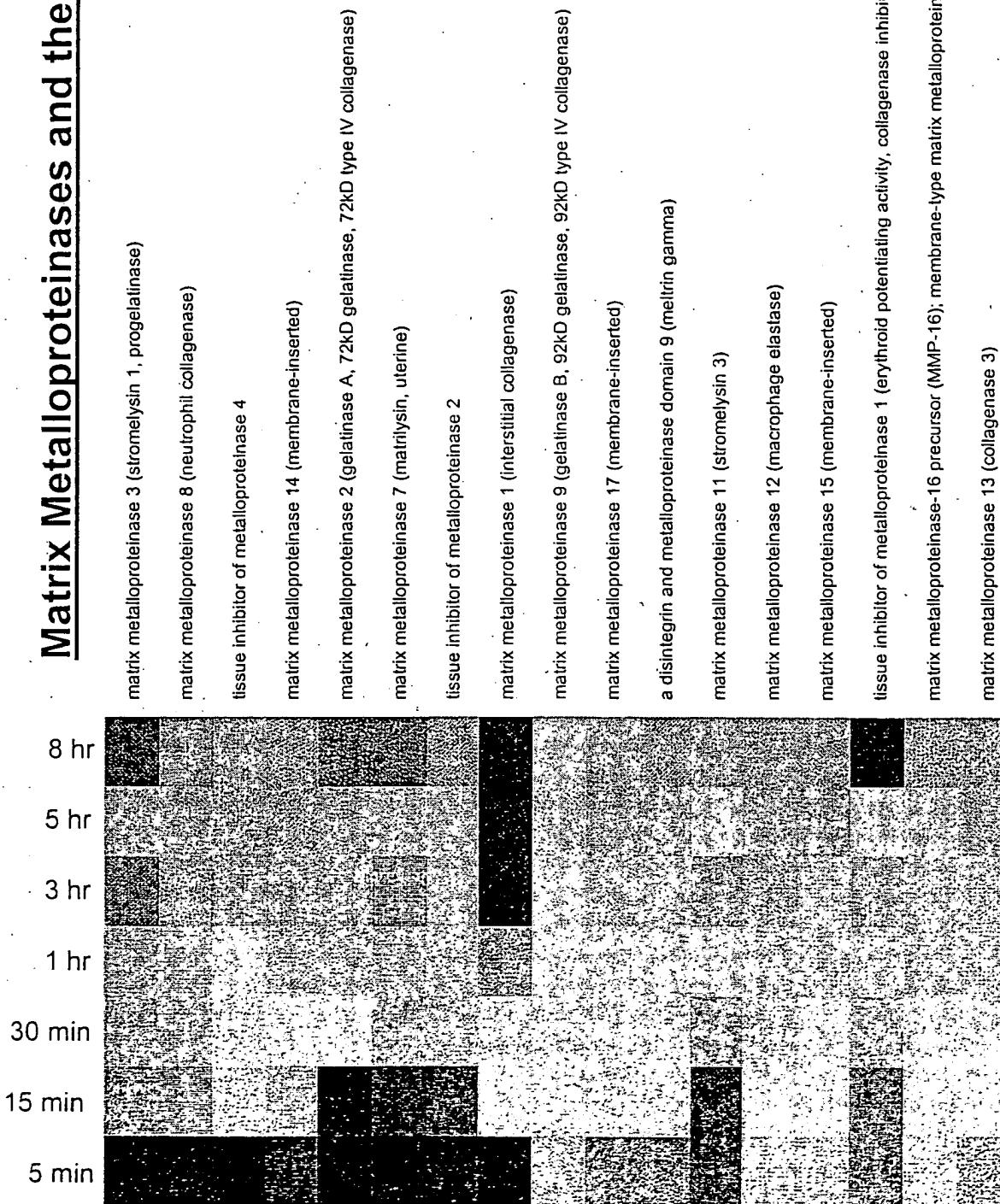


Figure 6C continued

15/29

Protein Kinase C's

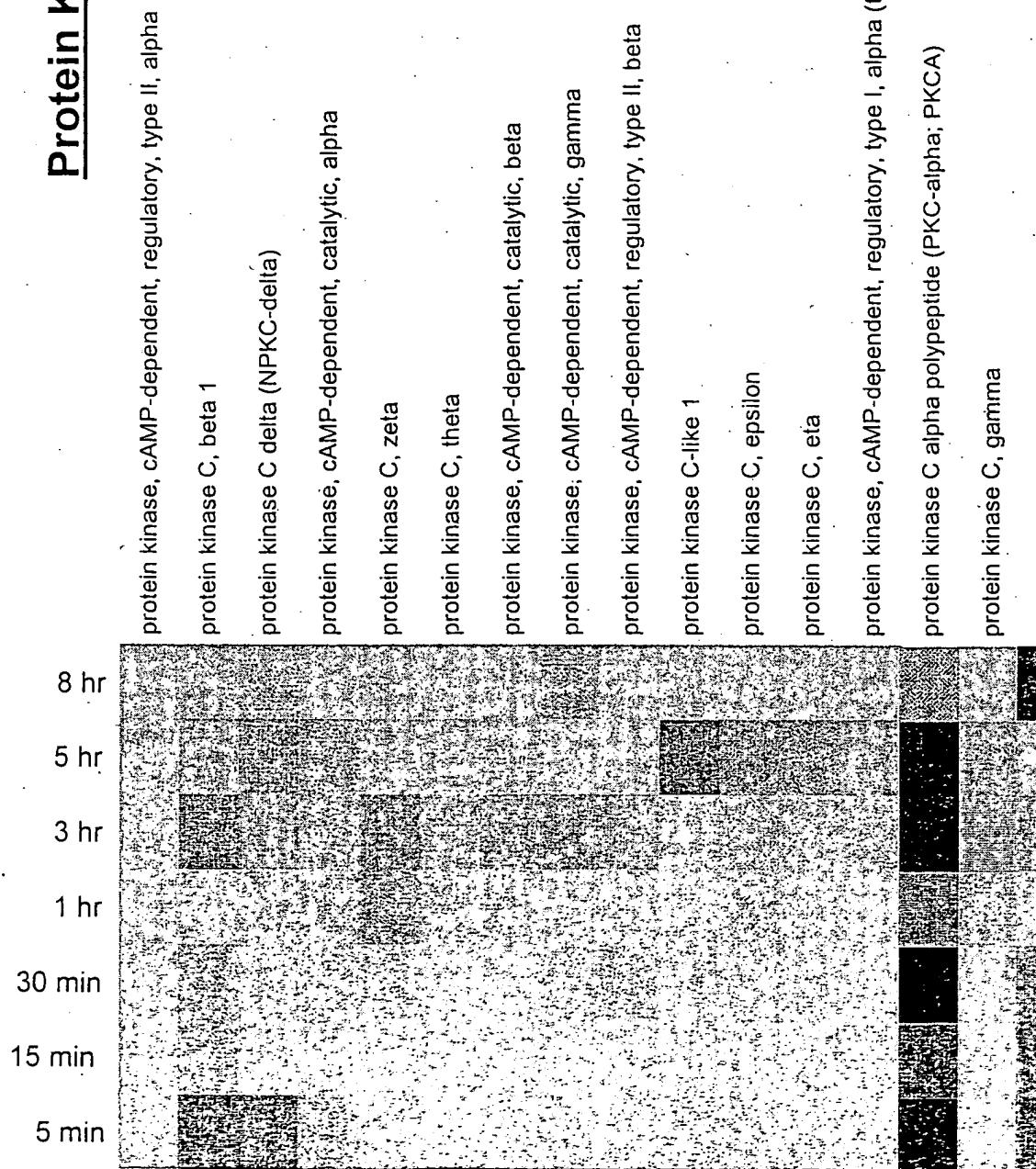


Figure 6D



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Tumor Necrosis Factors and Their Receptors

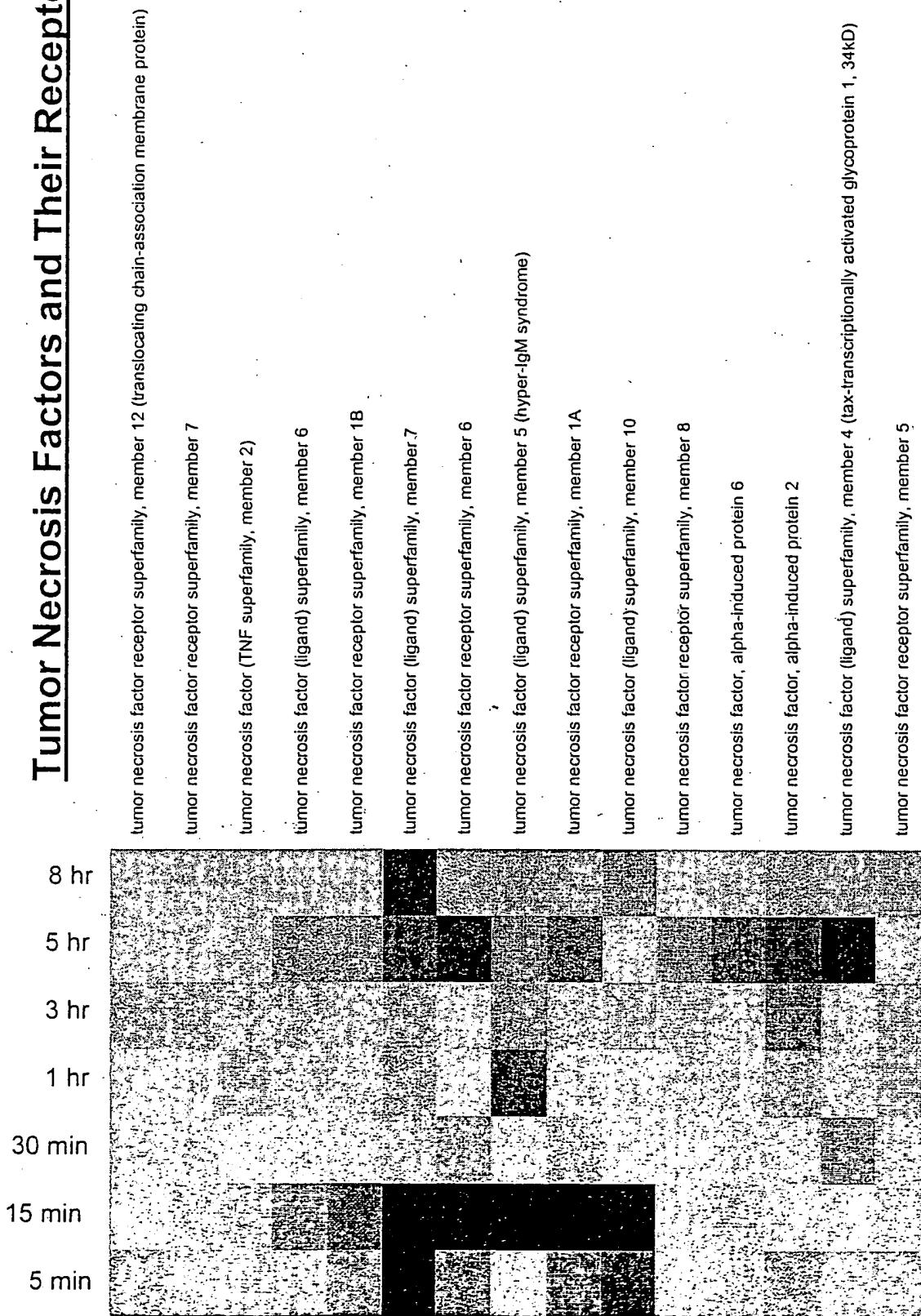
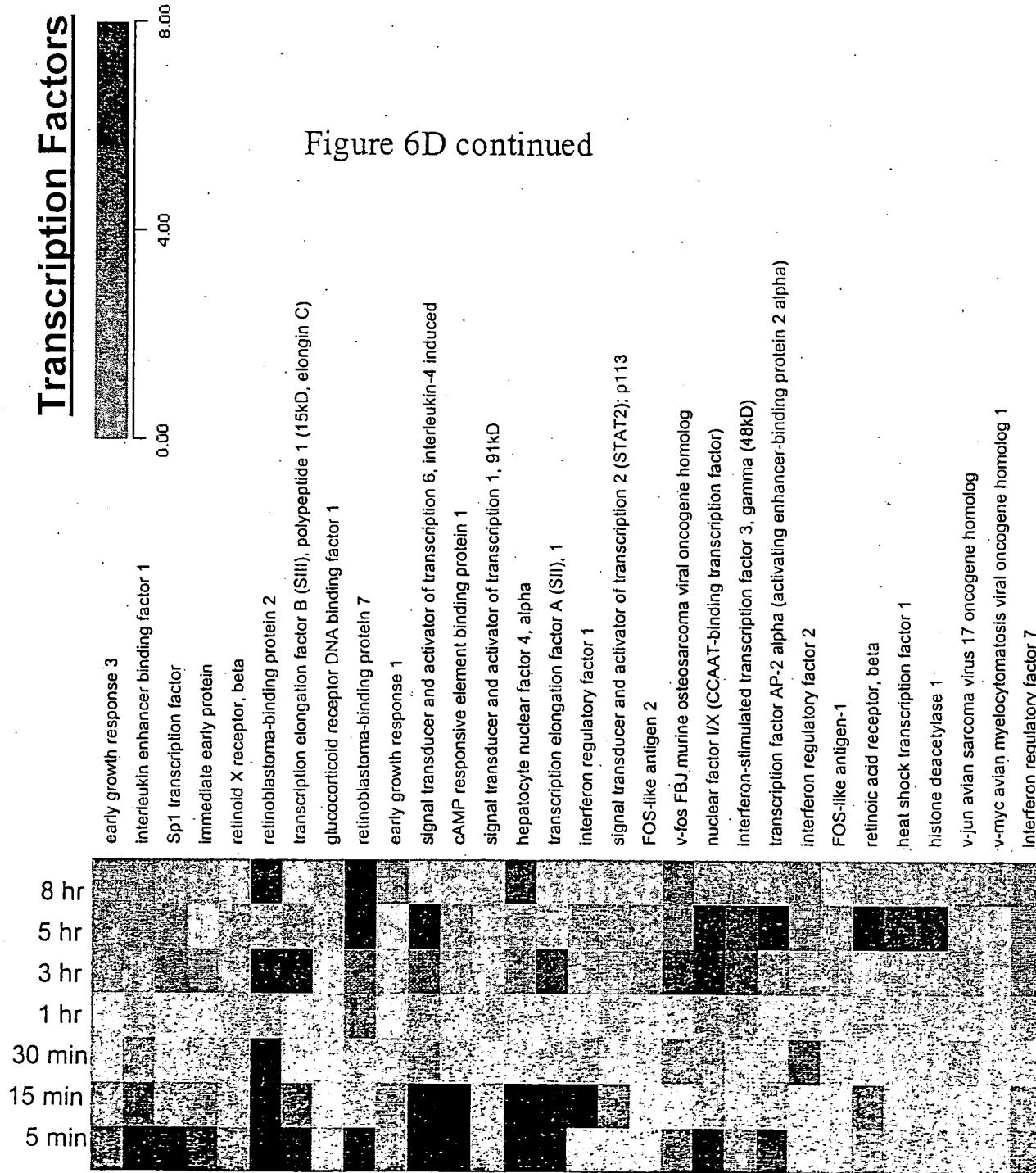


Figure 6D continued



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Transcription Factors



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Keratinocyte Expression Profiles

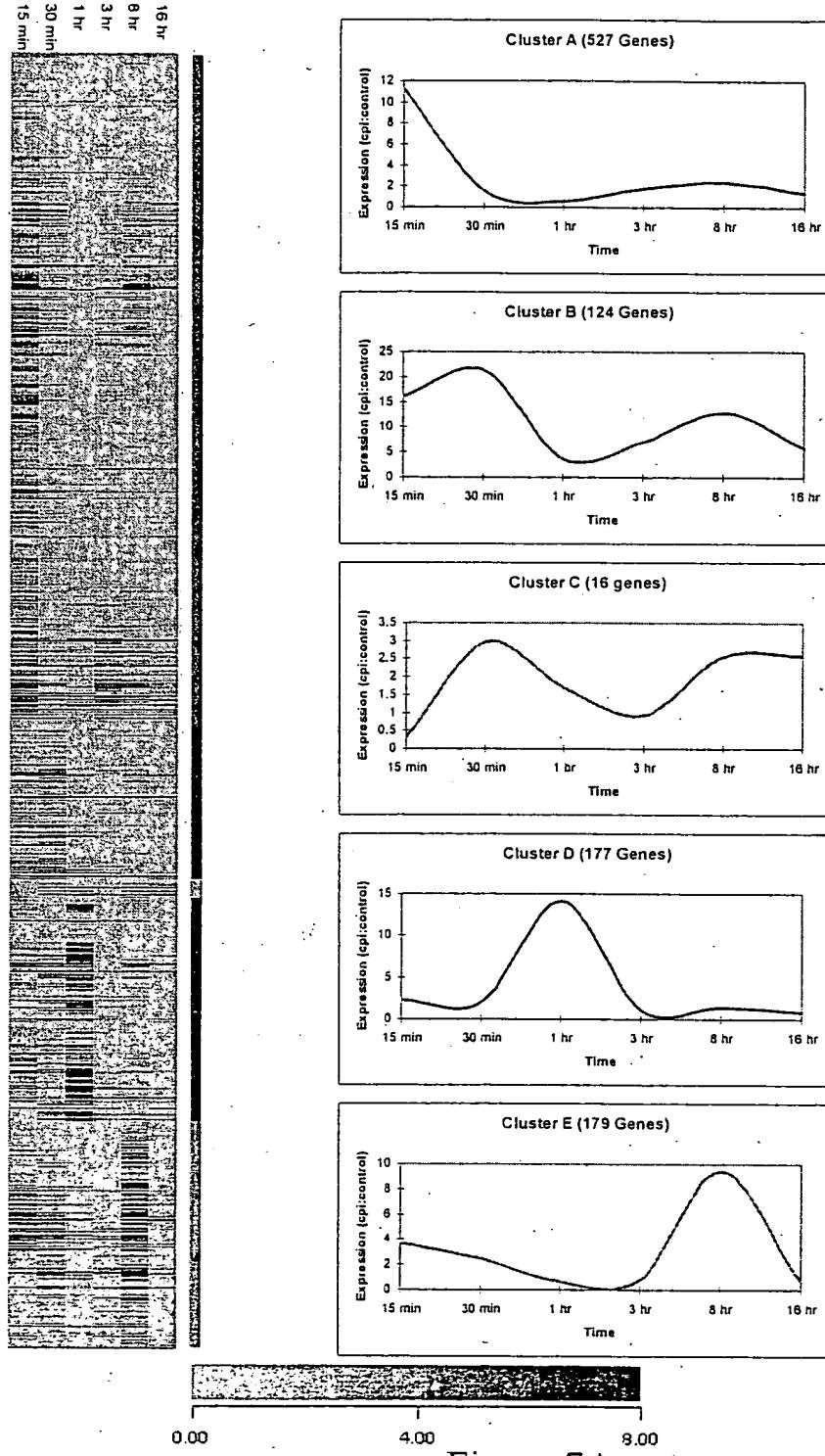


Figure 7A

19/29

Adhesion Molecules

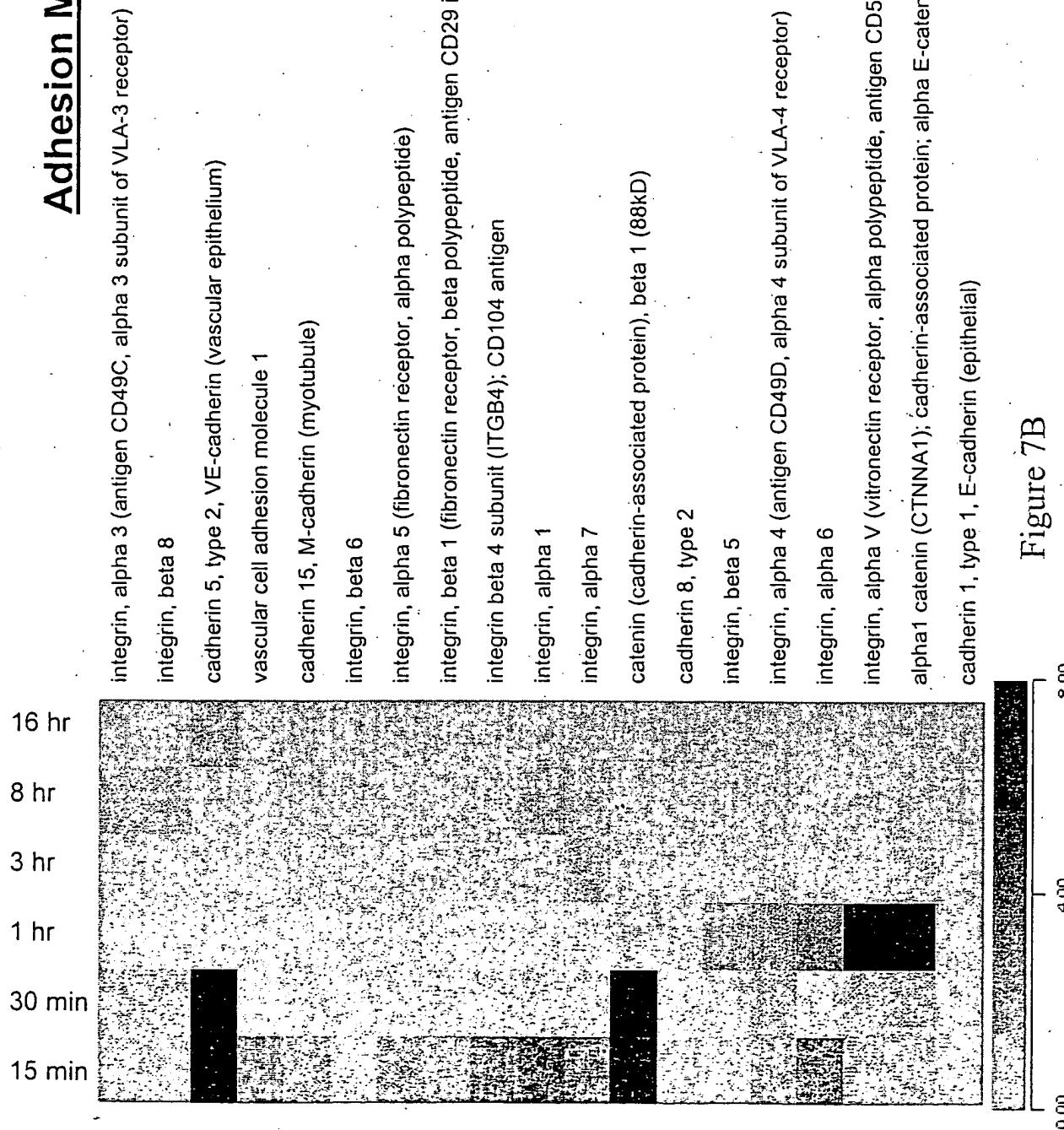


Figure 7B

20/29

Cyclins

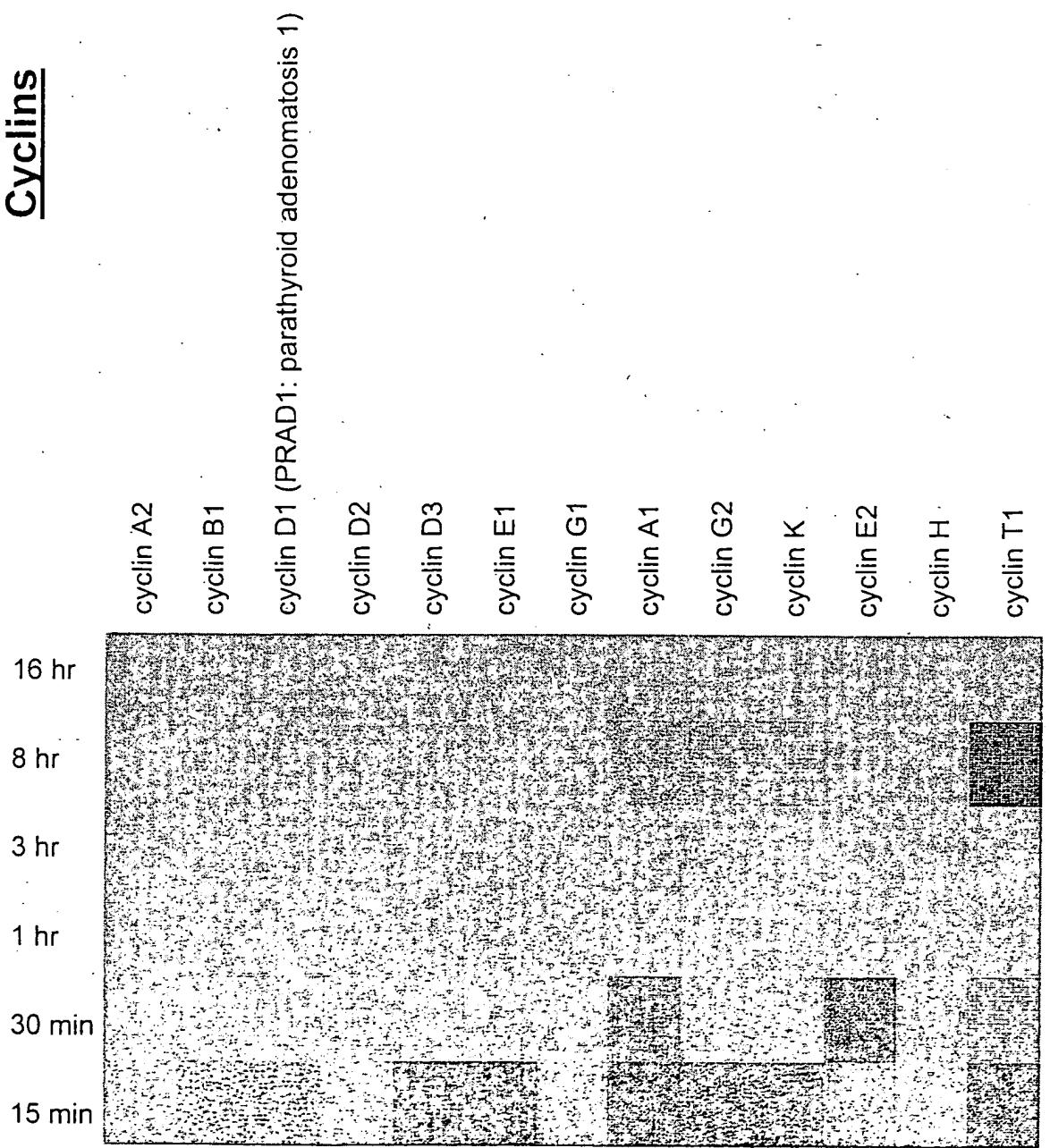
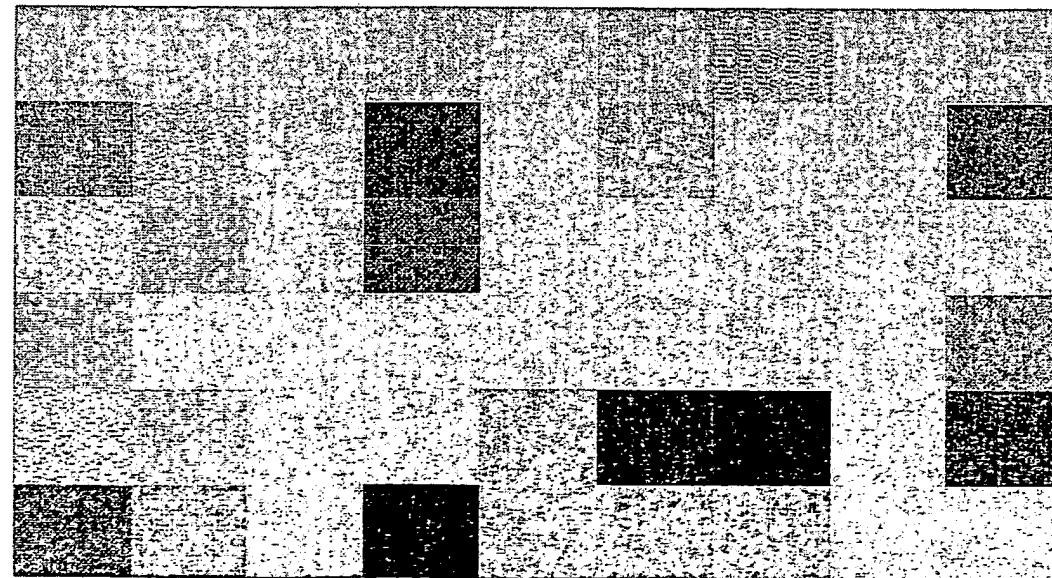


Figure 7B continued

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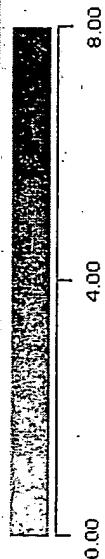
DNA Synthesis Proteins

16 hr
8 hr
3 hr
1 hr
30 min
15 min



polymerase (DNA directed), gamma
polymerase (DNA directed), delta 1, catalytic subunit (125kD)
topoisomerase (DNA) I
topoisomerase (DNA) II alpha (170kD)
ADP-ribosyltransferase (NAD+; poly (ADP-ribose) polymerase)
replication protein A3 (14kD)
telomerase reverse transcriptase
deoxyribonuclease I
polymerase (DNA directed), epsilon 2

Figure 7B continued



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Growth Factors and Their Receptors

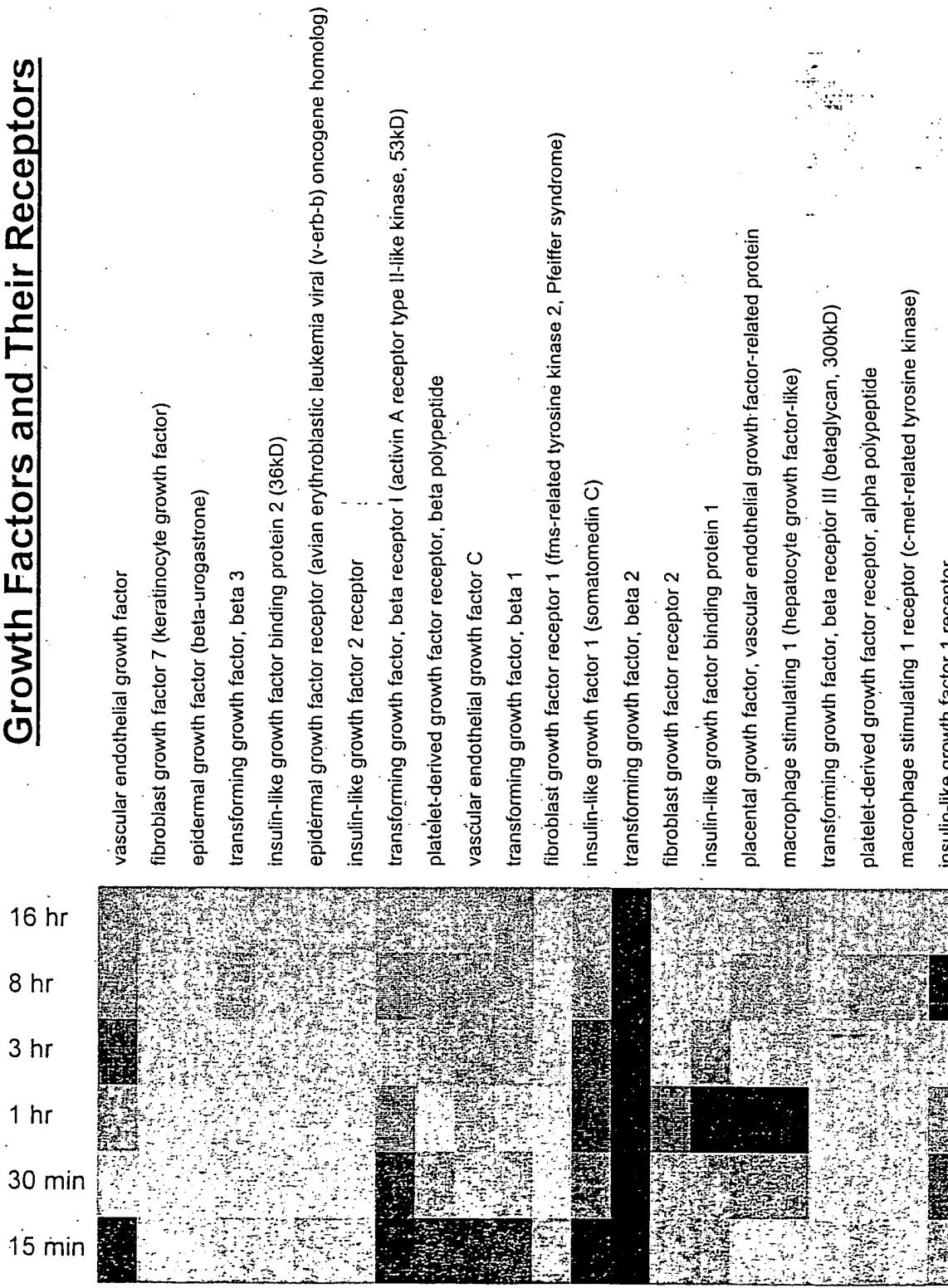
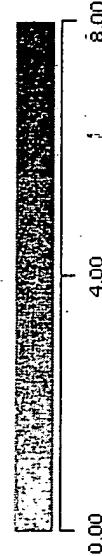
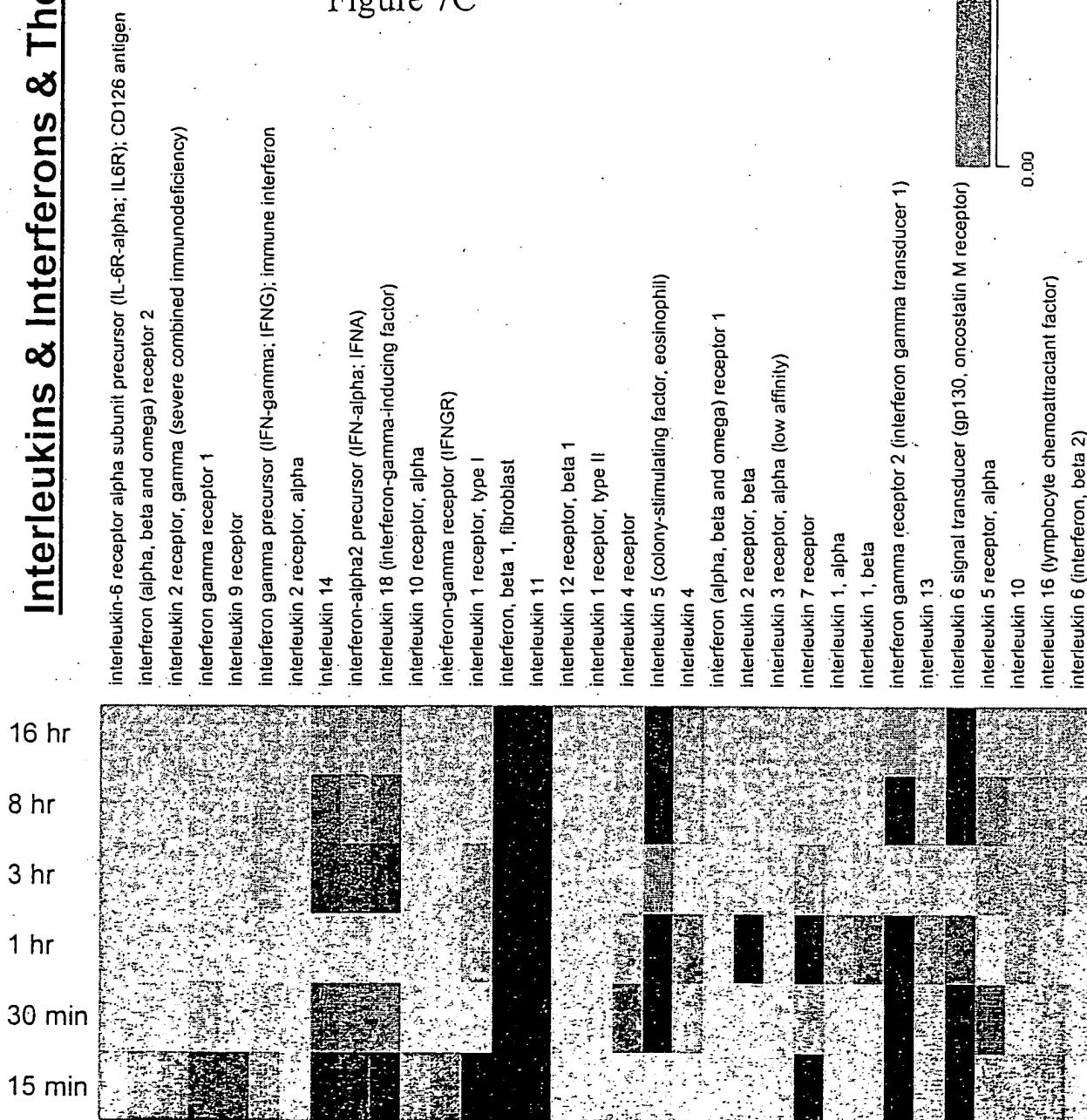


Figure 7B continued



23/29

Interleukins & Interferons & Their Receptors



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Other Kinases

cell division cycle 2, G1 to S and G2 to M

cyclin-dependent kinase 2

cyclin-dependent kinase 4

cyclin G associated kinase

calcium/calmodulin-dependent protein kinase (CaM kinase) II beta

5'-AMP-activated protein kinase catalytic alpha-1 subunit; AMPK alpha-1 chain

calcium/calmodulin-dependent protein kinase IV

Janus kinase 2 (a protein tyrosine kinase)

serum-inducible kinase

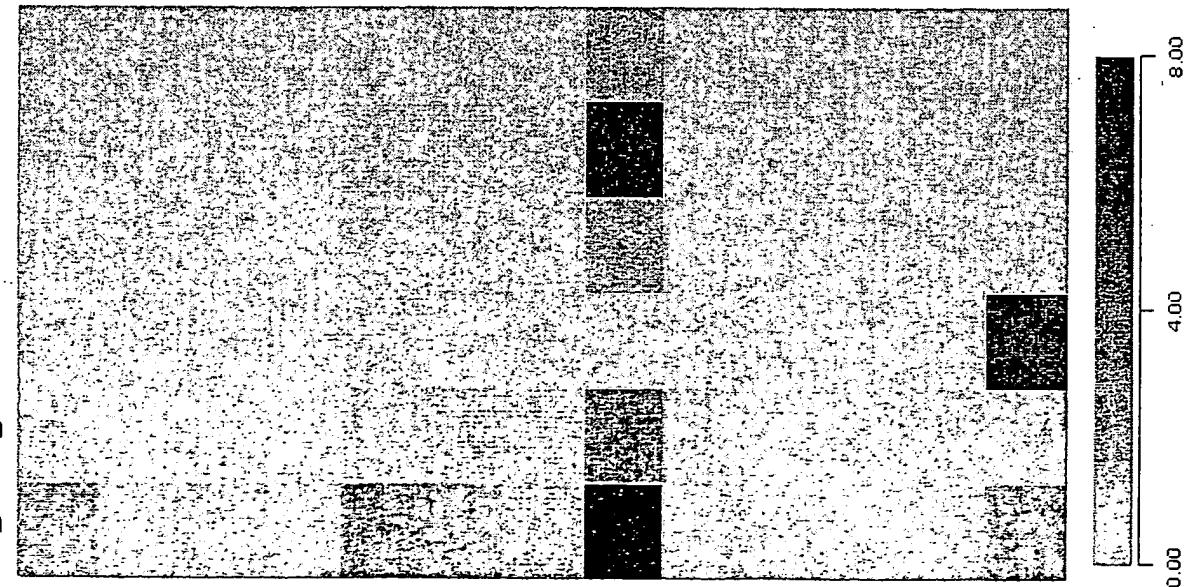
CDC28 protein kinase 1

CDC28 protein kinase 2

serum/glucocorticoid regulated kinase

calcium/calmodulin-dependent protein kinase I

Figure 7C continued



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MAP Kinases

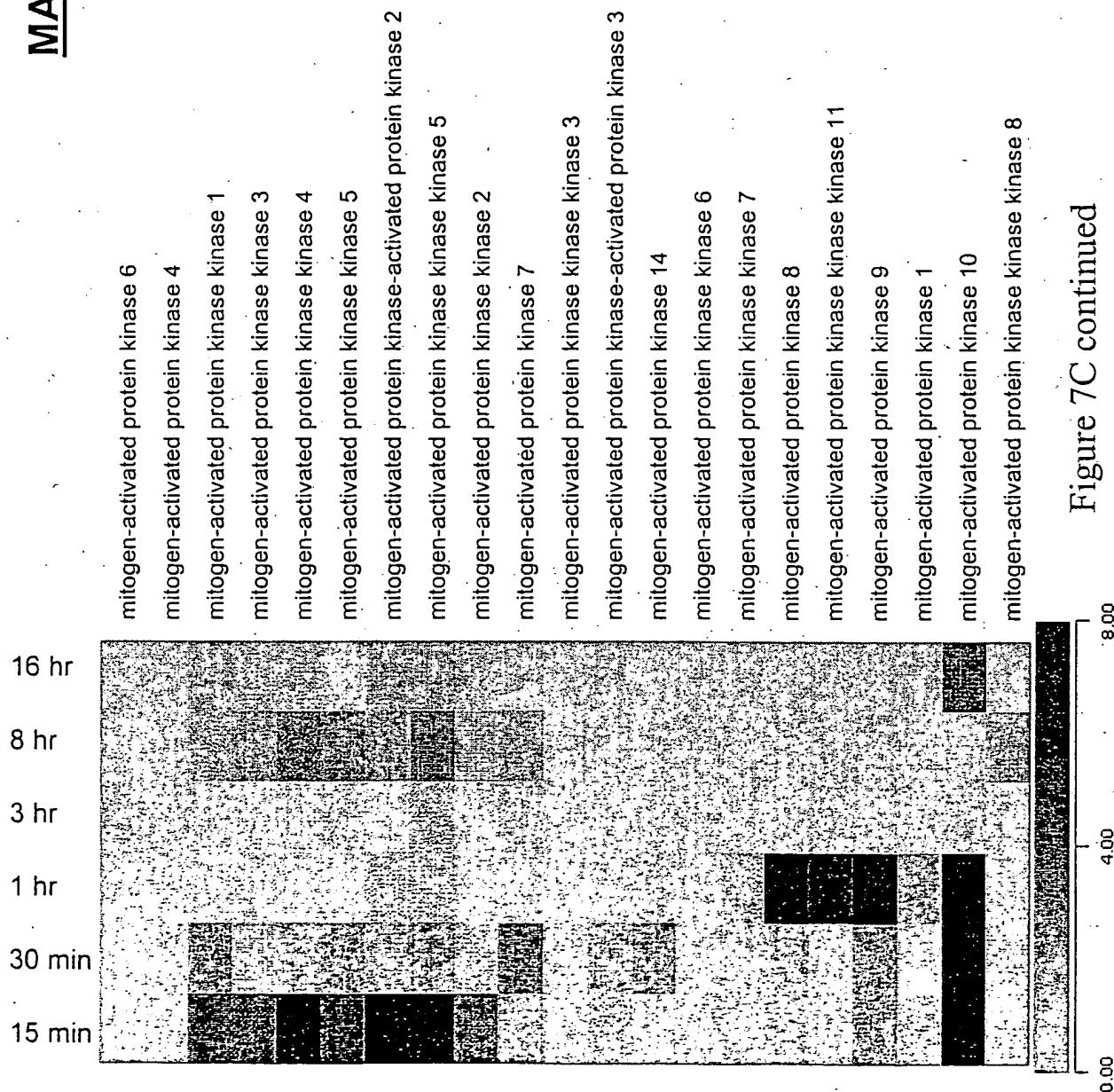


Figure 7C continued

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Matrix Metalloproteinases and their Inhibitors

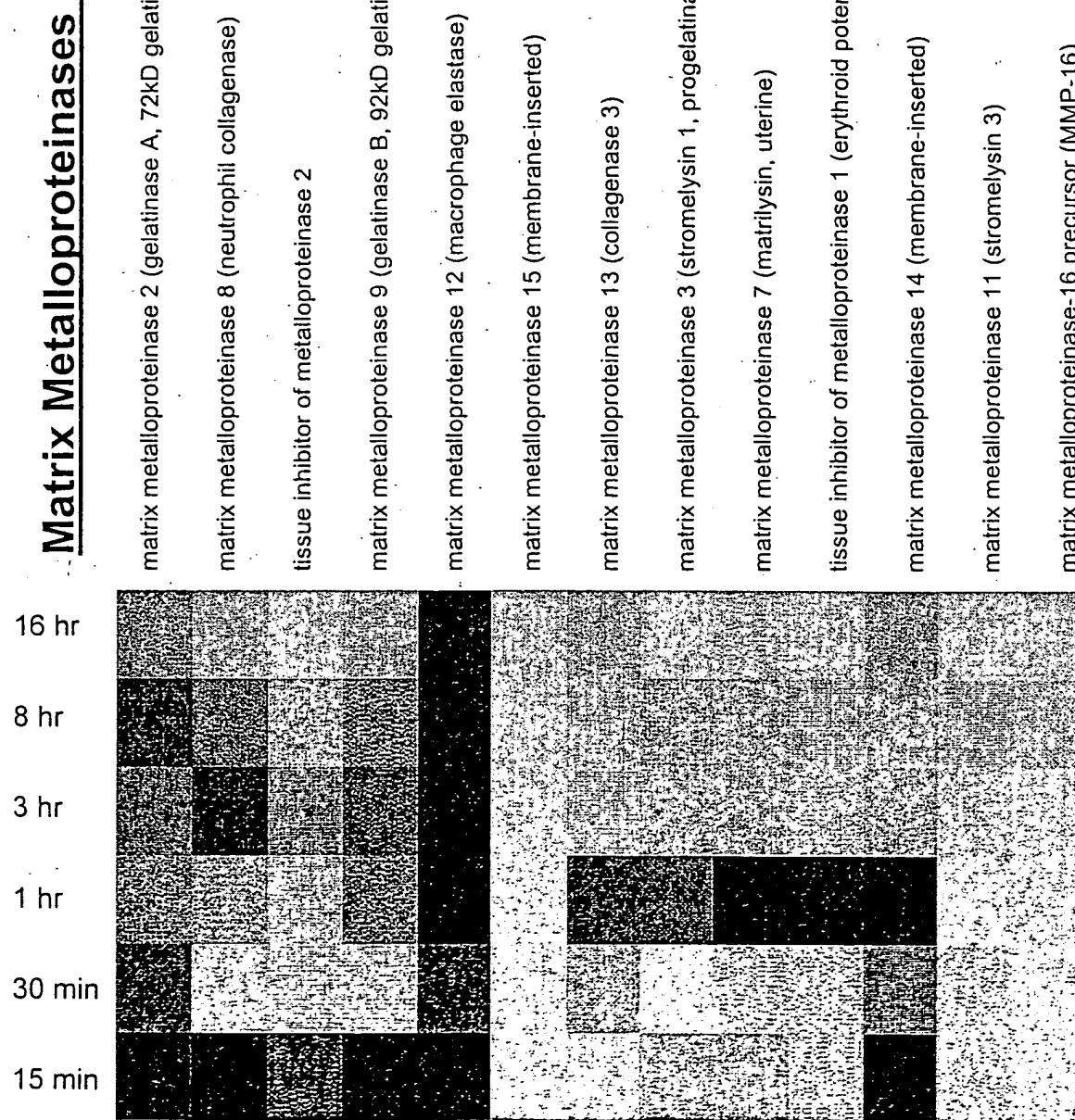


Figure 7C continued

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Protein Kinase C's

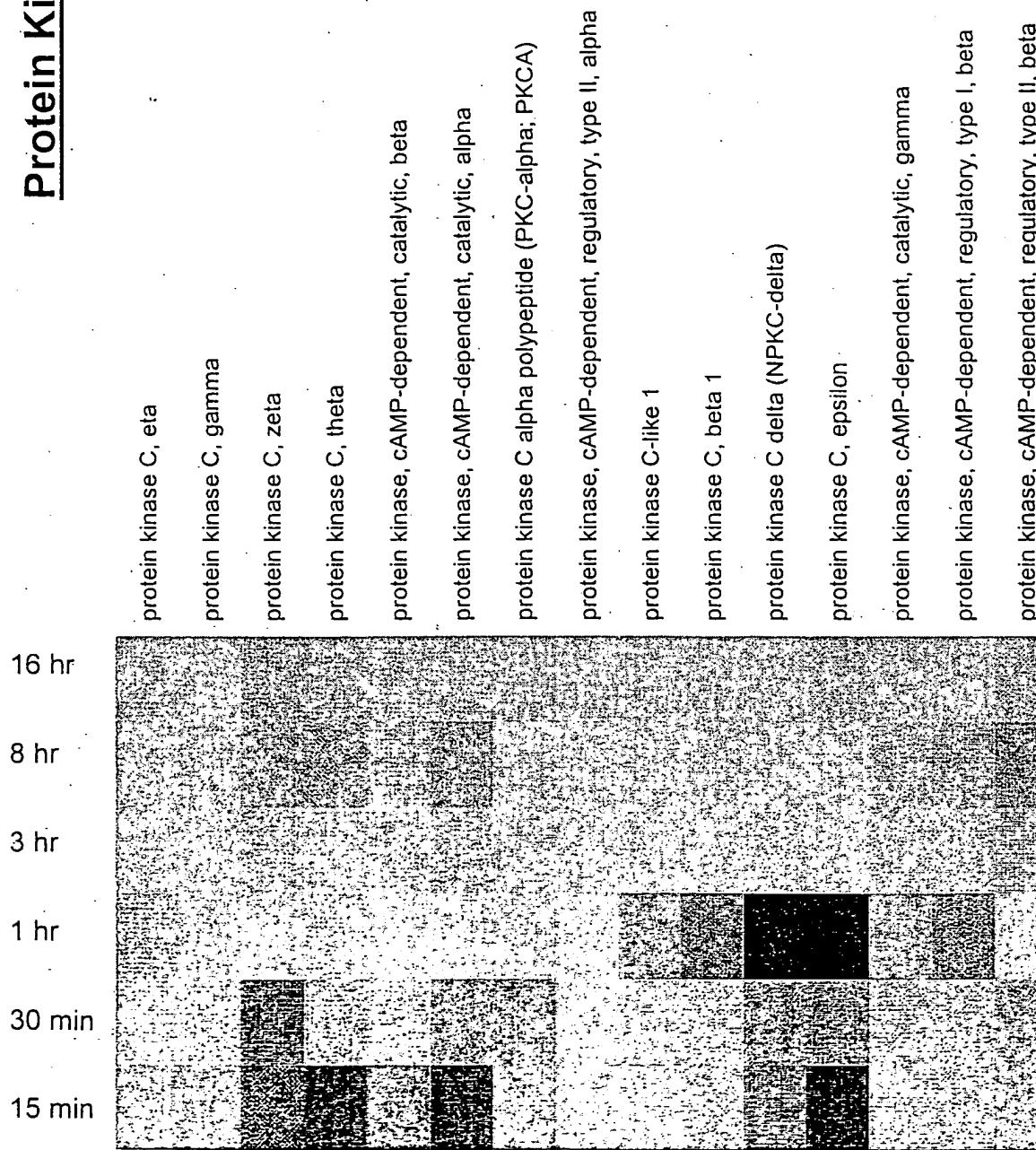


Figure 7D

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Tumor Necrosis Factors and Their Receptors

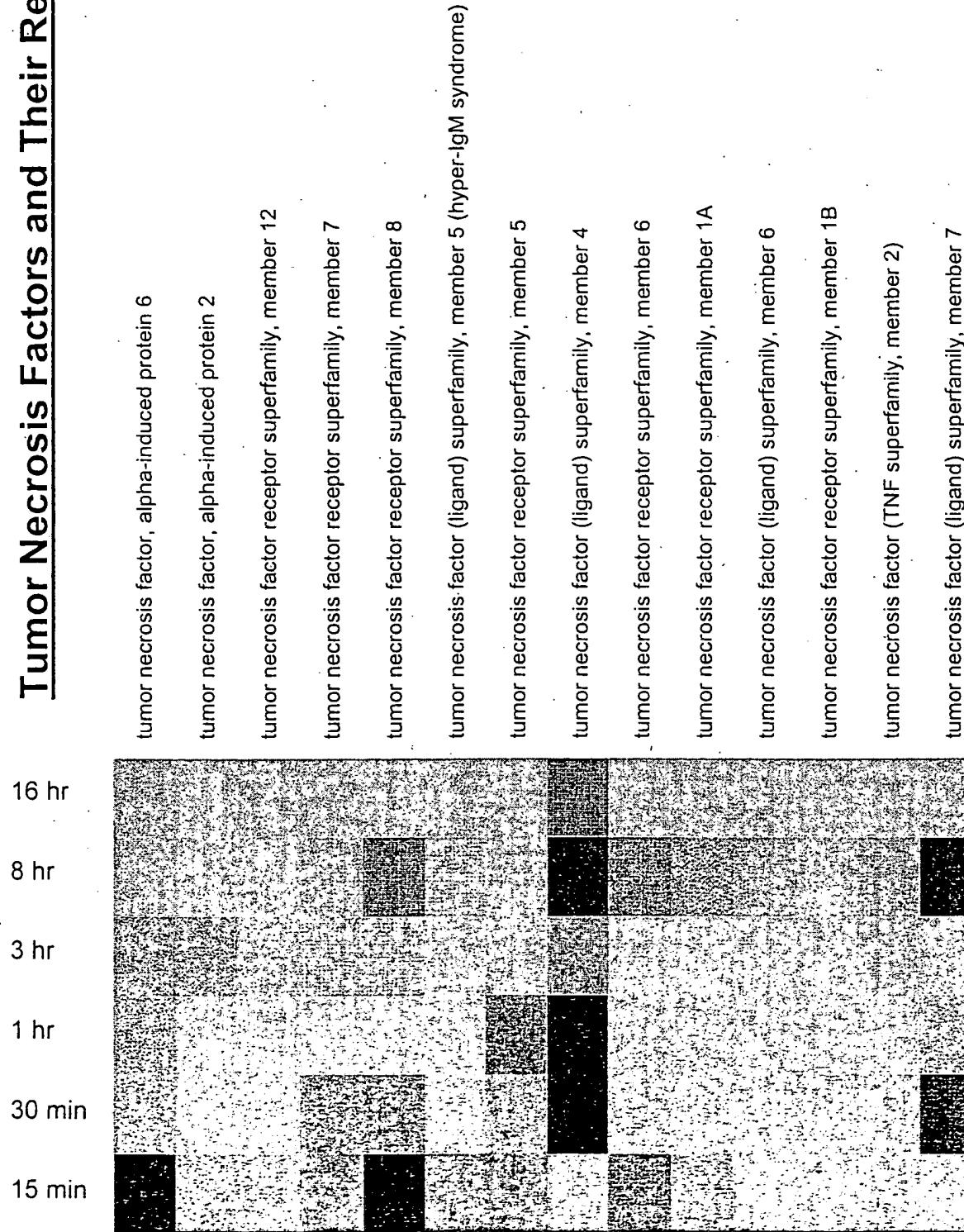


Figure 7D continued



29/29

Transcription Factors

